

DOCUMENT RESUME

ED 088 202

EA 005 936

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TITLE The Planning Unit Concept: An Alternative Approach to Program-Budgeting in Public Service Agencies.
SPONS AGENCY Trenton Public Schools, N.J.
PUB DATE [72]
NOTE 32p.

EDRS PRICE MF-\$0.75 HC-\$1.85
DESCRIPTORS *Community Agencies (Public); *Computer Oriented Programs; Cost Effectiveness; Educational Finance; *Planning; Prediction; *Program Budgeting; *Resources; School Districts
IDENTIFIERS *planning Units

ABSTRACT

The Planning Unit is a concept employed in resource requirements forecasting for the public service agencies, as an alternative to the conventional hierarchical program-structure used in PPB systems. The planning unit concept allows analysts to generate cost analyses by several simultaneous program-structures, not all of which need be in a conventional pyramid form from program-to-activity. Thus, the creative options of the planner are extended, without a requirement for reprogramming. The planning unit approach is a recommended alternative to the fixed program accounting approach, in which the consistency and uniformity requirements of the accounting function tend to abridge the opportunities of the planner and, incidentally, obstruct some of the main early objectives of PPB technology. An illustration of the planning unit as part of a public school district resource requirements forecasting system is provided. (Printout exhibits on pages 13 and 18-27 may reproduce poorly.)
(Author)

ED 088202

The Planning Unit Concept:

An Alternative Approach to Program-Budgeting in
Public Service Agencies

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EA 005-936

1972

Abstract

The Planning Unit is a concept employed in resource requirements forecasting for public service agencies, as an alternative to the conventional hierarchical program-structure used in PPB systems. The planning unit concept allows analysts to generate cost analyses by several simultaneous program-structures, not all of which need be in a conventional pyramid form from program-to-activity. Thus, the creative options of the planner are extended, without a requirement for reprogramming. The planning unit approach is a recommended alternative to the fixed program accounting approach, in which the consistency and uniformity requirements of the accounting function tend to abridge the opportunities of the planner, and, incidentally, obstruct some of the main early objectives of PPB technology. An illustration of the planning unit as part of a public school district resource requirements forecasting system is provided in the paper.

Objectives

The purpose of this paper is to explain and illustrate an approach to resource requirements analysis which is of general value to any public agency which provides human services.* The output of the proposed method is a multi-year projection of costs and other resource requirements in program-budget format, or, more correctly, in as many different program-budget formats as the users desire.

The approach described is built on the "planning unit" concept, which, as will be shown, is different from the cost analysis concepts ordinarily associated with program-budgeting or PPB systems. It has been developed to overcome certain aspects of PPB which, because of either theoretical untenability or practical difficulty, have the effect of inhibiting strategic planning in public agencies.

The principal advantage of the proposed alternative is its flexibility. It allows the users to sustain more than one program structure, to use non-hierarchical program structures, and, further, to generate cost analyses in categories which are of practical interest to the users--even if they do not satisfy the requirements for rigorous system analysis of the organizational components.

*The approach presented here was developed in part under a contract with the Trenton Public Schools, Trenton, New Jersey.

Limitations of Current PPB Systems

Historically, one of the main purposes of PPB reform has been to focus the attention of planners on aggregations of cost and resource utilization which are more "output" oriented than traditional object or function-object budgeting (2,4). By realigning the budgetary categories, it has been argued, budgetary decisions may be brought more logically into the goal-setting process of the agency, with the result that resources are to be tied to agency objectives, rather than antiquated accounting schemes. This redefinition of categories, however, is supposed to be more than a mere re-christening of the accounting codes; in contrast, it is supposed to be the result of a system analysis of the organization into its various output-producing components, with each component further analyzed into subordinate parts. The accounting code is to consist of a series of fields of characters, with the left-most field the broad program area and the right-most field the detailed activity or object of expenditure.

Aside from the fact that the typical program-structure has far too many levels to be useful in multi-year planning, the concept of the program-structure itself poses problems for the planner. The notion has gained prevalence that there are "correct" program-structures, and that others are incorrect. Despite the fact that systems analysis is both

an artistic and technical process, many areas of the public sector (education particularly) have behaved as though one could determine the correct componential structure of an organization, and, once one had, could "freeze" the program-structure in the agency and in all agencies with similar missions. The most telling manifestation of this confusion are discussions about what a program "really is" in a given agency (3).

The important idea that is lost in this confusion is that a program-structure is little more than an analytic fantasy about an organization, and its "correctness" is little more a function of its conceptual suitability to the planners, managers, and clients of the agency. To assert that a "school" or a "hospital" cannot be considered a "program," or that it cannot appear higher in the program structure than the service types provided in the school or hospital is to insist that there is a correct answer to what is really a question of judgment. Similarly, to impose a single program-structure for all similar agencies in a state, for instance, is to impose one agency's judgment on all the others--thereby inhibiting the analytic opportunities available to the diverse planners.

A program-structure is only a model of an organization. In any given organization, at any given time, it may be of interest to planners and decisionmakers to entertain more

than one model--including models which are more aligned with the administrative structure than with the goal/program structure. To the degree that a single program-structure is permanently installed, and to the degree that this structure is "wired-in" to the budgeting and accounting software used by planners, the opportunities for innovative analyses are inhibited. It must be remembered that the main goals of accounting are consistency and uniformity; these goals may be irrelevant to planning and program development. The planning unit concept is offered as a preferable alternative.

The Planning Unit

A planning unit is a loosely defined cost or activity center, whose specification is the responsibility of the planner. In general, a planning unit has the following characteristics:

- a. It is indivisible, that is, it is the smallest unit of activity with which the planner is concerned. (Even though the person managing the unit may divide it into parts for his own purposes, the planner does not.) A plan is defined as a unique set of planning units. Alternative plans are generated by adding, subtracting, or replacing planning units--but planning units may not be fractionally included or excluded.

- b. A planning unit is completely contained in one program; if several program structures are used, the planning unit may appear in different programs each time, but always as a complete unit. If "site" or "facility" is used as a program structure logic, then planning units are constrained to one site; if "clients served" is the basis of the program structure, then a planning unit must be wholly associated with one client group.
- c. The activities in a planning unit are, or can be placed, under a single supervisory person. Whatever is called a planning unit, thus, must be assignable to some person in the administrative organization, even though several units may be assigned to a single person.

For purposes of resource requirements planning, there need be usually only two levels in the program-structure: the program level and the planning unit level. The users may, however, elect to introduce levels between the two. These intermediate levels may be hierarchical (with planning units at the base of a pyramid), or, if judged appropriate, the structure may be non-hierarchical, with some major programs consisting of one planning unit, while others consist of scores, and so forth. Technically, one need not have any program structure at all, save for the list of planning units themselves.

In typical service agencies, it is useful to consider planning units as having a status; in the illustration provided in this paper, a planning unit may be either:

- a. a program (or sub-program), that is a continuing set of basic activities in the agency which are expected to continue indefinitely (e.g., "reading instruction," or "health examinations,")
- b. a project (or sub-project), that is a set of activities with a fixed outcome and schedule, such that the unit will go out of existence when the outcome is achieved (e.g., a construction project), or
- c. a project design (or sub-project design), that is a planned set of activities which is being considered for implementation in the agency (5).

In that part of the planning process concerned with resource requirements analysis, the planning units are the basic categories for describing the current resource utilization in the agency. In addition, they are the basis for forecasting multi-year resource requirements; a multi-year resource requirements projection is generated for each planning unit, showing the number of staff positions by staff type, the salary and salary-plus-benefits costs for each staff type, the capital costs, and the remaining non-staff/non-capital costs (which, in most service agencies are a relatively small

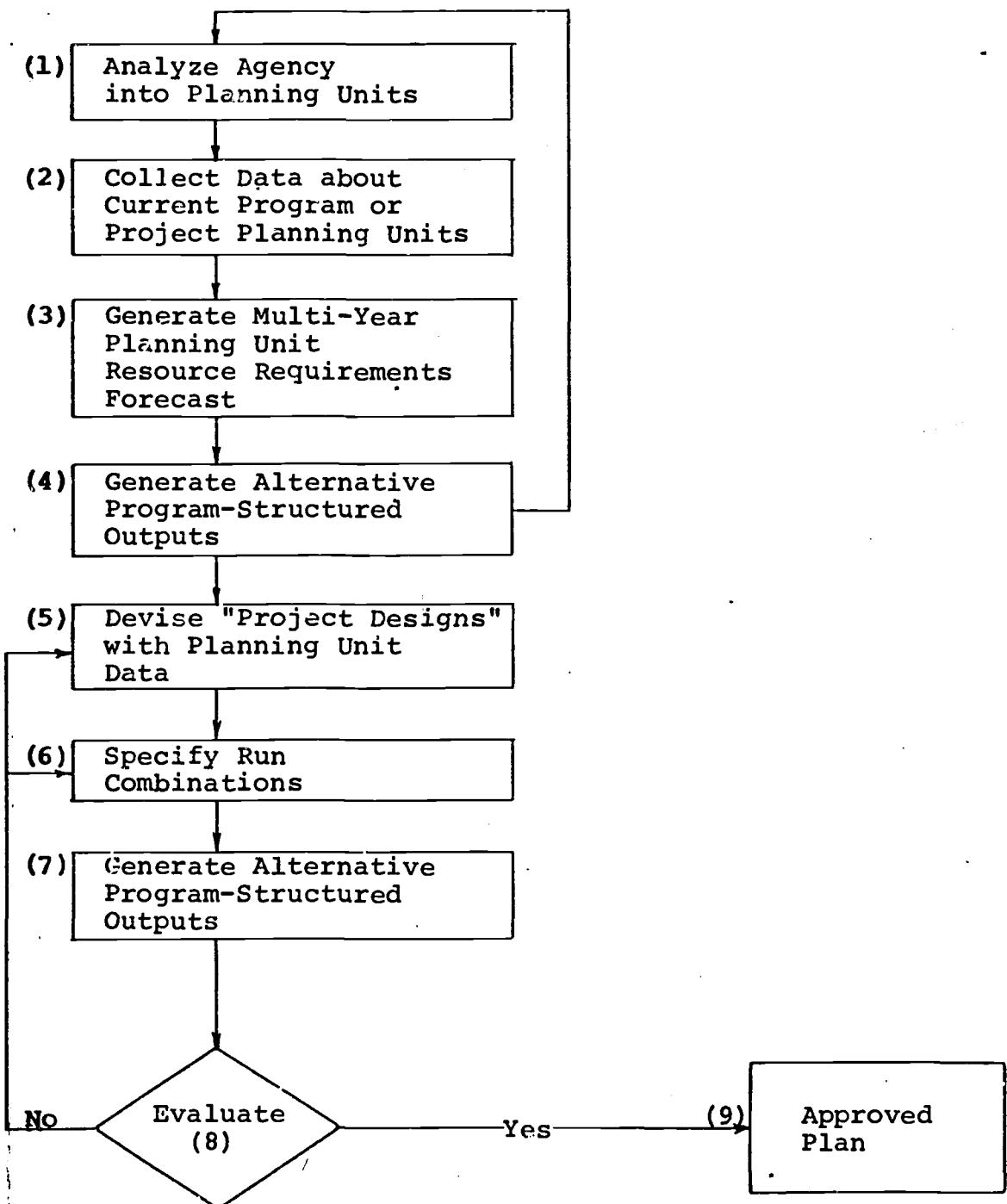
proportion of the total). At the discretion of the user, overhead costs may be shown within the direct service planning units, or separate "support" programs may be created.

The resource requirements for an agency, in a given period, are simply the sum of the planning unit requirements for that period. By basing the forecast on precise current data about planning units, and by choosing forecasting models appropriate to the particular unit, the overall projection is probably more accurate than those based on aggregate planning factors, such as average staff-client ratios, turnover rates, or salary inflation projections. Note that the planning unit approach can be used to generate both forecasts of the long-range requirements for current programs and projects, and also the alternative requirements for alternative plans. By providing estimated planning unit data for "project designs," and by specifying various combinations of these added planning units, the planners may generate several multi-year projections, each showing the resource requirements impact of adding (or subtracting) services to the agency's programs. In this conception, the "best plan" is that set of planning units which, if implemented, hold the greatest promise of achieving the agency's goals and objectives. The process of selection is, of course, iterative; planners may specify alternative combinations of project design planning units, or create additional project designs, until an acceptable plan is found.

Figure 1 reviews the process. In each cycle of the planning process, the agency is analyzed into planning units, and data is collected on the characteristics of each unit. (Note that anticipated program-structure categories influence the analysts in determining the size and boundaries of planning units. The more different program-structures, the more constraints on planning unit definition.) Forecasting models are used to generate a multi-year resource requirements projection for each planning unit. The planning unit forecasts become a data set, from which program-structured output reports and analyses are generated. These projections of current operational resource requirements are the basis for agency review and subsequent project designs to achieve new agency objectives or satisfy agency financial constraints. (Note: A "negative project design" is a set of planning units with negative resources, that is, elimination of staff and services from programs.) Various sets of project designs are specified as candidate alternative plans for the agency and run through the same forecasting and report generating procedures. (Note: If the analysts wish to run every possible combination of project designs, the number of possible alternatives is $2^N - 1$, where N = the number of project designs.) These alternatives are evaluated for expected effectiveness and cost; if an acceptable plan is found, it is approved and becomes the basis for the agency's

Figure 1

Resource Requirements Analysis
Using the "Planning Unit" Concept



next budget. If no acceptable plan is found, the process of designing projects and specifying run combinations is reiterated until a satisfactory outcome is reached (or until time is exhausted).

An Illustration of the Planning Unit Approach

This section describes the resource requirements module of the System for Trenton's Educational Planning--STEP-RRM (1). The module provides four alternative resource requirements reports: The Planning Unit Report; the Program Report (subsuming projects); the Project Report; and the Site Report (an alternative program structure). Each of these reports can be generated for current programs and projects (known as the "base case" plan) or for planned alternatives. Each report includes:

- (1) The number of positions, by each of fifteen staff types, for Year 1-Year 5. (Staff types are variable.)
- (2) The salary cost, fringe benefit cost, and total, for Year 1-Year 5.
- (3) The total capital outlay cost, Year 1-Year 5.
- (4) The total non-staff/non-capital outlay cost, Year 1-Year 5.
- (5) The total gross cost, and the total local cost.
- (6) The total expected positions, by staff type, and total "hires," Year 1-Year 5.
- (7) Subsidiary data on planning factors.

These data elements are relatively constant in each of the reports generated by the module; the differences are in the level or focus of aggregation. In the Planning

Unit Report, the above information is displayed for each of the district's "planning units." In the Program Report, the information is aggregated in "programs," according to the district's current program structure; this report may be viewed as the "program budget" for the district, and will be produced to show actual expenditures for Current Year, as well as projected expenditures for Year 1-Year 5 in alternative plans. In the Project Report, planning unit information is re-aggregated into project summaries, and in the Site Report, planning unit information is aggregated to provide summaries of cost and resource requirements by site - a report that will prove especially interesting and valuable to building administrators.

There are several functions served by this module. Obviously, it is important to project the staff and financial resources required to continue current programs or future alternatives. In addition, the complicated effects of such variables as inflation and staff turnover rates are reflected in the forecasts, in a way that would be almost infeasible without automated computation.

STEP-RRM operates by taking detailed, current year data about the "planning units" in the district, along with other inputs about staff costs and turnover in the district, and, using a combination of forecast options available to the planners, projects the five-year staff requirements and costs

for each planning unit. These planning units are then aggregated into larger clusters, e.g., programs, projects, sites, or the whole district, to produce the main planning reports.

The data on which the forecasts are based is relatively simple. For each planning unit, users input identification data and information about the current staff, capital outlay, and other resources being utilized in the unit. In addition, appropriate enrollment information (taken from the enrollment forecasting procedure) is input to the planning unit description, along with estimates of categorical or "project" monies expected to accrue to the unit. (See Figure 2.) After data is collected for each planning unit, district data is added: mainly, the "fringe benefit percentage" associated with each staff type, the expected turnover rates associated with each type, and the forecast options chosen for each resource type in each planning unit. The resource requirements model then proceeds to incorporate the effects of projected enrollment change, inflation, turnover rates, and other relevant variables, according to the forecast options selected by the users (see Table 1), and produces cost/resource requirements projections for Year 1-Year 5. Figure 3 shows the summary flow of information and calculation in the forecaster.

| | | | |
|----------------|---------|--------|--------------|
| 1. Prepared by | 2. Date | 3. Run | 4. Type Unit |
|----------------|---------|--------|--------------|

5. Planning Unit Descriptive Characteristics

| A. Card Type Number | B. Card Type Identifier | C. Date | D. Planning Unit Name | E. Planning Unit Code |
|---------------------|-------------------------|---------|-------------------------|-----------------------|
| 1102 | PLUBS | 0971 | EARLY CHILDHD-COLLEGEUS | d104 |
| 112 | 3 6 | 7 10 | 11 | 43 46 |

6. Planning Unit Enrollment, Revenue, and CO Data - CY and Y1-Y5 (if appropriate).

| B. Data Type | C. Card No. (CN) | D. Card Iden. (CR) | E. PU No. Yr. | F. Years - CY, Y1-Y5 (if appropriate) | G. Option Code | H. Project Code | I. Status Code | J. CO Forecast Option |
|--------------|------------------|--------------------|---------------|---------------------------------------|----------------|-----------------|----------------|-----------------------|
| Card Columns | 1 2 | 3 6 | 7 10 | 11 14 | 15 | 2423 | 3031 | 3839 |
| I. Enroll | 111 | PENR | 0971 | 0104 | 53 | 154 | 156 | 159 |
| II. NCREV | 112 | PNCIE | 0971 | 0104 | 10 | 10 | 10 | 10 |
| III. CO | 113 | PLUCP | 0971 | 0104 | 17 | 17 | 17 | 17 |

7. Planning Unit Non-Staff Non-Capital Costs (NSNCO)

| A. NSNCO Cost Type | B. CR | C. D. Date No. Yr. | E. PU Code | F. No. or Cost Type Code | G. Option Code | H. Years - CY, Y1-Y5 (if appropriate) not required for Line 1 of Part J. | I. Y1-Y5 | J. Y4 |
|-------------------------|-------|--------------------|------------|--------------------------|----------------|--|----------|-----------------|
| Card Column | 1 2 | 3 6 | 7 10 | 11 14 | 15 18 | 19 20 21 | 28 29 | 36 37 |
| No. of NSNCO Cost Types | 14 | PNSD | 0971 | 0104 | 0002 | 0001 | 1520 | 5 25-76 6 76-77 |
| II. | 15 | PNSC | 0971 | 0104 | 0002 | 002 | 1287 | Y5 |
| III. | 15 | | | | | | | |
| IV. | 15 | | | | | | | |

Figure 2

Planning Unit Data Input Form

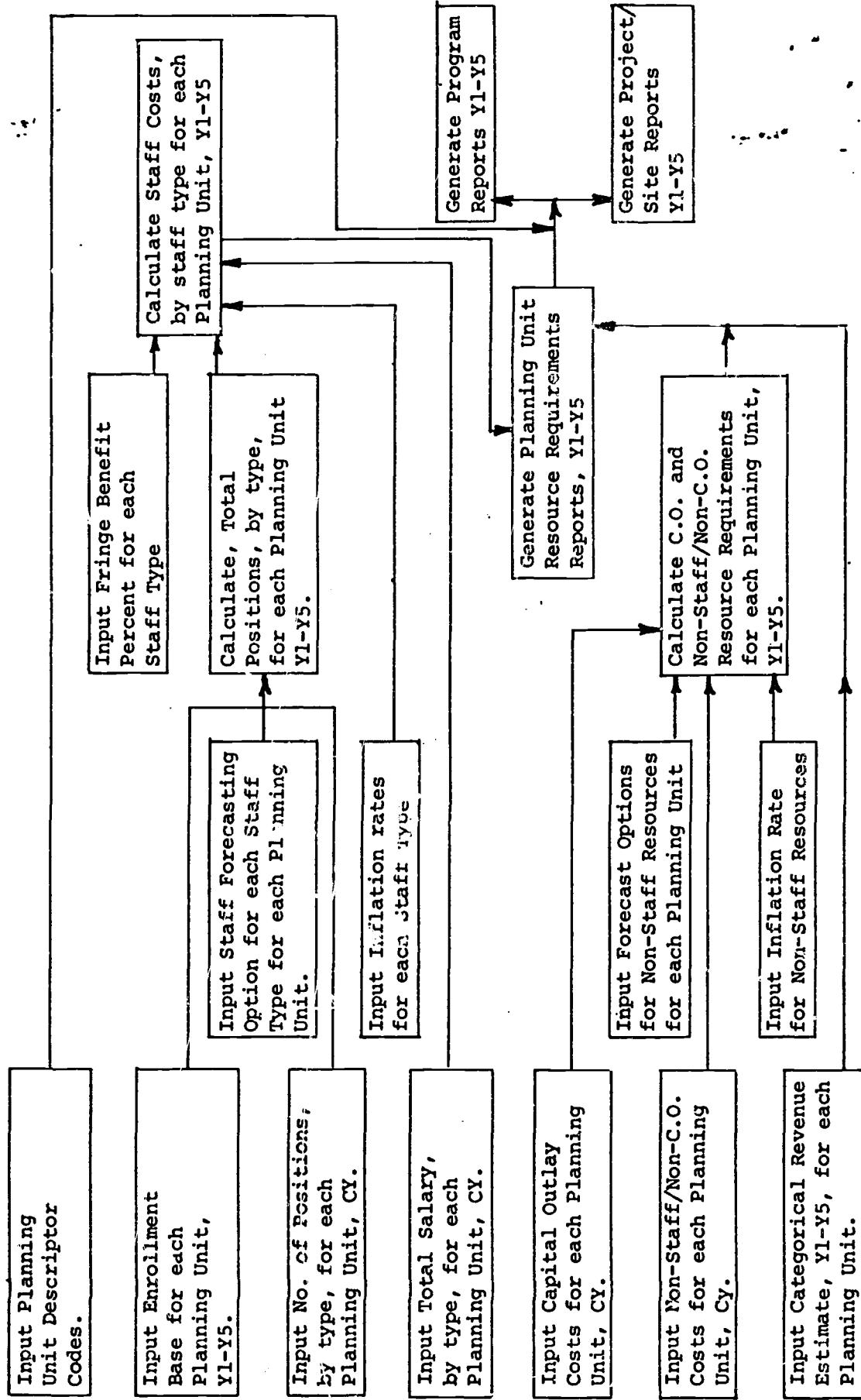
Table 1
Options for Resource Requirements Projection

| <u>COST FORECAST OPTION CODE</u> | <u>EXPLANATION</u> |
|--------------------------------------|---|
| 01 | User estimates Y1-Y5 costs (or number of positions) and CY and Y1-Y5 data is input. |
| 02 | CY cost data only is input. Y1-Y5 cost data will be calculated taking into account inflation. |
| 03 | CY cost data only is input. Y1-Y5 cost data will be calculated taking into account inflation and a planning factor directly related to planning unit operations.* |

*That is, proportionate to such variables as client demand
(student membership), or to some other base; staff type A
may vary proportionately to staff type B, for example.

Figure 3

Summary Flow; Cost/Resource Requirements Forecaster



Outputs of the STEP-RRM

To illustrate the outputs of the module, five exhibits are provided.

Exhibit A is a sample Planning Unit report, for "Early-Childhood-Columbus," a cluster of students in the Columbus elementary School (a sub-program). Notice that the report includes five-year projections of positions, staff costs, and other resource requirements.

Exhibit B is a projection of requirements for the entire Early Childhood program in the district (all activities for pre-schoolers and kindergarten). Notice that the data is based on planning units projections from twenty-three sites, listed on the second page of the report.

Exhibit C is a project report, for the "Disadvantaged Project" (activities funded by ESEA Title 1), a composite of thirteen planning units, not all of which are in the same program.

Exhibit D shows projected resource requirements for the Columbus School site, a facility in which four planning units, from four different programs, are operating.

The fifth exhibit, E, is an excerpt from the district summary report, showing total costs in projections, by cost type; in the subsidiary data are a list of the

fifteen staff types used in this analysis (they may be varied), the input rates for staff turnover, salary inflation, and fringe benefit proportions, and an analysis of the number of positions by staff type, for the entire agency, both numbers of positions and number of "hires".

TEFFENTON SCHOOL DISTRICT
PLANNING UNIT DETAIL REPORTREPORT NO. TSDU-RRA-2003
PAGE 4

PLANNING UNIT REPORT FOR BASE CASE

PLANNING UNIT NAME: EARLY CHILDHOOD-COLUMBUS CODE: 104 SITE: COLUMBUS SCHOOL

PROGRAM MEMBERSHIP: EARLY CHILDHOOD INSTRUCTION PLANNING UNIT STATUS: SUBP

CURRENT EXPENSE
STAFF COSTS

PRINCIPALS/VICE PRINCIPALS

FORECAST OPTION CODE = 2

| | CY | Y1 | Y2 | Y3 | Y4 | Y5 |
|---------------------|------|------|------|------|------|------|
| NUMBER OF POSITIONS | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 |
| SALARY COST | 1976 | 2114 | 2262 | 2421 | 2590 | 2771 |
| FRINGE BENEFIT COST | 395 | 423 | 452 | 484 | 518 | 554 |
| STAFF COST | 2371 | 2537 | 2714 | 2905 | 3108 | 3325 |

TEACHER-A-EC PRIMARY, ELEM

FORECAST OPTION CODE = 3

| | CY | Y1 | Y2 | Y3 | Y4 | Y5 |
|---------------------|-------|-------|-------|-------|-------|-------|
| NUMBER OF POSITIONS | 1.00 | 1.72 | 1.06 | 1.08 | 1.71 | 1.15 |
| SALARY COST | 10850 | 11829 | 13125 | 14295 | 15632 | 17515 |
| FRINGE BENEFIT COST | 2170 | 2366 | 2625 | 2859 | 3166 | 3503 |
| STAFF COST | 13020 | 14195 | 15750 | 17154 | 18998 | 21018 |

INSTRUCTIONAL SPECIALIST

FORECAST OPTION CODE = 3

| | CY | Y1 | Y2 | Y3 | Y4 | Y5 |
|---------------------|------|------|------|------|------|------|
| NUMBER OF POSITIONS | 0.13 | 0.13 | 0.14 | 0.14 | 0.14 | 0.15 |
| SALARY COST | 1307 | 1425 | 1581 | 1722 | 1907 | 2110 |
| FRINGE BENEFIT COST | 261 | 285 | 316 | 344 | 381 | 422 |
| STAFF COST | 1568 | 1710 | 1897 | 2066 | 2288 | 2532 |

HEALTH PERSONNEL

FORECAST OPTION CODE = 3

| | CY | Y1 | Y2 | Y3 | Y4 | Y5 |
|---------------------|------|------|------|------|------|------|
| NUMBER OF POSITIONS | 0.13 | 0.13 | 0.14 | 0.14 | 0.14 | 0.15 |
| SALARY COST | 1417 | 1545 | 1714 | 1867 | 2068 | 2287 |
| FRINGE BENEFIT COST | 283 | 309 | 343 | 373 | 414 | 457 |
| STAFF COST | 1700 | 1854 | 2057 | 2240 | 2482 | 2764 |

OPER-MAINT-FACILITIES-NON AD

FORECAST OPTION CODE = 2

| | CY | Y1 | Y2 | Y3 | Y4 | Y5 |
|---------------------|------|------|------|------|------|------|
| NUMBER OF POSITIONS | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 |
| SALARY COST | 3558 | 3807 | 4074 | 4359 | 4664 | 4990 |
| FRINGE BENEFIT COST | 712 | 761 | 815 | 872 | 933 | 998 |
| STAFF COST | 4270 | 4568 | 4889 | 5231 | 5597 | 5988 |

INST-SUPP ALDOS AND SUPP STAFF

FORECAST OPTION CODE = 3

| | CY | Y1 | Y2 | Y3 | Y4 | Y5 |
|---------------------|------|------|------|------|------|------|
| NUMBER OF POSITIONS | 0.13 | 0.13 | 0.14 | 0.14 | 0.14 | 0.15 |
| SALARY COST | 468 | 510 | 566 | 617 | 683 | 755 |
| FRINGE BENEFIT COST | 94 | 102 | 113 | 123 | 137 | 151 |
| STAFF COST | 562 | 612 | 679 | 740 | 820 | 906 |

CLERICAL-OFFICE PERSONNEL

FORECAST OPTION CODE = 2

BEST COPY AVAILABLE

Exhibit A

BEST COPY AVAILABLE

Exhibit A (continued)

| | | | | | | | |
|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| NUMBER OF POSITIONS | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 |
| SALARY COST | 423 | 489 | 1057 | 1131 | 1210 | 1295 | 1295 |
| PRINCE BENEFIT COST | 105 | 196 | 211 | 226 | 242 | 259 | 259 |
| STAFF COST | 1108 | 1186 | 1268 | 1357 | 1492 | 1554 | 1554 |
| UNIT TOTALS | | | | | | | |
| NUMBER OF POSITIONS | 2.56 | 2.59 | 2.64 | 2.66 | 2.72 | 2.77 | 2.77 |
| SALARY COST | 20499 | 22218 | 24379 | 26412 | 28954 | 31723 | 31723 |
| PRINCE BENEFIT COST | 4100 | 4444 | 4875 | 5281 | 5791 | 6344 | 6344 |
| STAFF COST | 24599 | 26662 | 29554 | 31693 | 34745 | 38067 | 38067 |
| NSNCO COST TYPE 1 FORECAST CODE 2 | 1520 | 1596 | 1760 | 2037 | 2476 | 3160 | 3160 |
| NSNCC COST TYPE 2 FORECAST CODE 2 | 12d7 | 1351 | 1689 | 1724 | 2096 | 2675 | 2675 |
| TOTAL NSNCO CCSTS | 2807 | 2947 | 3249 | 3761 | 4572 | 5835 | 5835 |
| TOTAL CURRENT EXPENSE | 27406 | 29609 | 32503 | 35454 | 39317 | 43902 | 43902 |
| CAPITAL-OUTLAY CCST-FORECAST OPTION 2 | 117 | 129 | 156 | 208 | 305 | 491 | 491 |
| TOTAL PLANNING UNIT COST | 27523 | 29738 | 32659 | 35662 | 39622 | 46393 | 46393 |
| TOTAL NON-CURRENT EXPENSE REVENUE | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL LOCAL PLANNING UNIT COST | 27523 | 29738 | 32659 | 35662 | 39622 | 46393 | 46393 |
| ENROLLMENT EASE | 53 | 54 | 56 | 57 | 59 | 61 | 61 |

PUPIL-STAFF RATIO*

NOT CALCULATED

MEAN SALARY

| | | | | | | |
|---|----------------|--------|--------|--------|--------|--------|
| PRINCIPALS/VICE PRINCIPALS | 15200. | 16264. | 17402. | 18621. | 19924. | 21319. |
| TEACHER A-EC, PRIMARY, ELEMENTARY | 10850. | 11609. | 12422. | 13292. | 14222. | 15218. |
| INSTRUCTIONAL SPECIALIST | 407.69 | 10054. | 10758. | 11511. | 12316. | 13178. |
| HEALTH PERSONNEL | 407.69 | 10700. | 11663. | 12479. | 13352. | 14288. |
| OPER-MAINT-FACILITIES-NCN AD NOT CALCULATED | 3910. | 4164. | 4476. | 4790. | 5125. | 5686. |
| INSTRUC AIDS AND SUPP STAFF | 407.69 | 3600. | 3852. | 4122. | 4410. | 5049. |
| CLERICAL-OFFICE PERSONNEL | NOT CALCULATED | 7103. | 7597. | 8129. | 8698. | 9958. |

*NOTE: INTERPRET PUPIL-STAFF RATIO AS PUPILS PER ONE FULL-TIME EQUIVALENT STAFF

PROGRAM TITLE: EARLY CHILDHOOD INSTRUCTION**PROGRAM CODE: 1**

| CURRENT EXPENSE - STAFF POSITIONS AND COSTS BY STAFF TYPE | | CY | Y1 | Y2 | Y3 | Y4 | Y5 |
|--|-------|-------|-------|-------|-------|-------|-------|
| <u>CENTRAL ADMIN ANA PROJ-MARS</u> | | | | | | | |
| NUMBER OF POSITIONS | 2,440 | 2,440 | 2,420 | 2,400 | 2,376 | 2,356 | 2,320 |
| SALARAY COST | 31450 | 40094 | 50293 | 42876 | 45878 | 49389 | 52525 |
| FRINGE BENEFIT COST | 41490 | 8016 | 10575 | 9176 | 9818 | 10505 | 10505 |
| STAFF COST | 46340 | 48085 | 51451 | 55056 | 58357 | 63035 | 63035 |

PRINCIPALS/VICE PRINCIPALS

| NUMBER OF POSITIONS | CY | 2.74 | 2.74 | 2.74 | 2.74 | 2.74 | 2.74 |
|---------------------|-------|-------|-------|-------|-------|-------|-------|
| SALARAY COST | 47004 | 50293 | 53816 | 57581 | 61512 | 65923 | 65923 |
| FRINGE BENEFIT COST | 9401 | 10538 | 10763 | 11516 | 12325 | 13184 | 13184 |
| STAFF COST | 56473 | 60333 | 64573 | 67097 | 73935 | 79107 | 79107 |

AUXN STAFF-PROF/TECHNICAL

| NUMBER OF POSITIONS | CY | 1.99 | 2.06 | 2.12 | 2.19 | 2.26 | 2.34 |
|---------------------|-------|-------|-------|-------|-------|-------|-------|
| SALARAY COST | 4553 | 16620 | 18539 | 20559 | 22973 | 2556 | 2556 |
| FRINGE BENEFIT COST | 3031 | 3366 | 3721 | 4132 | 4596 | 5101 | 5101 |
| STAFF COST | 18184 | 20192 | 22333 | 24791 | 27564 | 30697 | 30697 |

TEACHER A-EC, PRIMARY-ELEM

| NUMBER OF POSITIONS | CY | 51.00 | 51.52 | 53.08 | 56.75 | 56.52 | 58.36 |
|---------------------|--------|--------|--------|--------|--------|---------|---------|
| SALARAY COST | 521195 | 574716 | 633597 | 695499 | 772618 | 853777 | 853777 |
| FRINGE BENEFIT COST | 164117 | 114943 | 140719 | 138896 | 156522 | 170755 | 170755 |
| STAFF COST | 625214 | 689657 | 763316 | 839385 | 927140 | 1024533 | 1024533 |

INSTRUCTURAL SPECIALIST

| NUMBER OF POSITIONS | CY | 4.30 | 4.43 | 4.57 | 4.72 | 4.89 | 5.05 |
|---------------------|-------|-------|-------|-------|-------|-------|-------|
| SALARAY COST | 46919 | 49623 | 54807 | 60676 | 67336 | 74456 | 74456 |
| FRINGE BENEFIT COST | 49382 | 4925 | 10962 | 12133 | 13456 | 14891 | 14891 |
| STAFF COST | 53391 | 59345 | 65769 | 72809 | 80812 | 89367 | 89367 |

HEALTH PERSONNEL

| NUMBER OF POSITIONS | CY | 5.92 | 5.90 | 5.21 | 5.36 | 5.51 | 5.53 |
|---------------------|-------|-------|-------|-------|-------|-------|-------|
| SALARAY COST | 43910 | 48329 | 53227 | 58612 | 64558 | 71264 | 71264 |
| FRINGE BENEFIT COST | 8762 | 9007 | 10642 | 11721 | 12912 | 14253 | 14253 |
| STAFF COST | 52692 | 57992 | 63849 | 70333 | 77470 | 85517 | 85517 |

OPER-MAINT-FACILITIES-JUN AD

| NUMBER OF POSITIONS | CY | 20.39 | 20.36 | 20.36 | 20.36 | 20.36 | 20.36 |
|---------------------|-------|-------|--------|--------|--------|--------|--------|
| SALARAY COST | 73407 | 78545 | 84044 | 89927 | 95220 | 102955 | 102955 |
| FRINGE BENEFIT COST | 14681 | 15703 | 16804 | 17987 | 19245 | 20593 | 20593 |
| STAFF COST | 88008 | 94253 | 100853 | 107914 | 115465 | 123549 | 123549 |

INSTRUC AIDES AND SUPP STAFF

| NUMBER OF POSITIONS | CY | 21.63 | 21.64 | 22.19 | 22.81 | 23.35 | 24.12 |
|---------------------|-------|-------|--------|--------|--------|--------|--------|
| SALARAY COST | 69748 | 76796 | 84254 | 94650 | 101681 | 112142 | 112142 |
| FRINGE BENEFIT COST | 13325 | 15538 | 16851 | 18530 | 20296 | 22428 | 22428 |
| STAFF COST | 83668 | 92356 | 106105 | 111183 | 121777 | 134570 | 134570 |

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Exhibit B

CLERICAL-FICE PERSONNEL

| | | | | | |
|---------------------|----------------|---------------|----------------|----------------|----------------|
| NUMBER OF POSITIONS | 1,16 | 1,17 | 1,18 | 1,19 | 1,20 |
| SALARY COST | 9235 | 9947 | 10533 | 11695 | 12383 |
| FRINGE BENEFIT COST | 1847 | 1985 | 2137 | 2299 | 2476 |
| STAFF COST | 11082 | 11912 | 12820 | 13794 | 14899 |
| TOTAL | 113,925 | 150,91 | 165,917 | 192,068 | 233,658 |

MISCELLANEOUS

| | | | | | |
|---------------------|-----------------|----------------|-----------------|-----------------|-----------------|
| NUMBER OF POSITIONS | 1,16 | 1,17 | 1,18 | 1,19 | 1,20 |
| SALARY COST | 9235 | 9947 | 10533 | 11695 | 12383 |
| FRINGE BENEFIT COST | 1847 | 1985 | 2137 | 2299 | 2476 |
| STAFF COST | 11082 | 11912 | 12820 | 13794 | 14899 |
| TOTAL | 122,1594 | 132,881 | 145,9595 | 161,0730 | 178,9686 |

STAFF TITLES FOR THE PROGRAM

| | | | | | | |
|-------------------------|----------------|---------------|----------------|----------------|----------------|----------------|
| NUMBER OF POSITIONS | 115,74 | 117,72 | 120,71 | 123,39 | 126,12 | 129,15 |
| SALARY COST | 89,6557 | 98,989 | 107,057 | 117,6221 | 129,683 | 142,3972 |
| FRINGE BENEFIT COST | 17,9712 | 19,664 | 21,561 | 23,641 | 25,9313 | 28,6735 |
| STAFF COST | 107,6269 | 118,395 | 129,078 | 148,662 | 155,6216 | 170,8768 |
| TOTAL NSNCU COST | 143,325 | 150,91 | 165,917 | 192,068 | 233,658 | 297,954 |

| | | | | | | |
|-----------------------------------|----------|---------|----------|----------|----------|----------|
| CAPITAL OUTLAY COST | 2876 | 3161 | 3826 | 5094 | 7459 | 12,912 |
| GROSS PROGRAM COST(G+C) | 122,4470 | 133,042 | 146,3421 | 161,5824 | 179,7143 | 201,8734 |
| TOTAL NON-CURRENT EXPENSE REVENUE | 0 | 0 | 0 | 3 | 6 | 3 |
| TOTAL LOCAL PROGRAM COST | 122,4470 | 133,042 | 146,3421 | 161,5824 | 179,7143 | 201,8734 |

PLANNING UNITS IN THE PROGRAM BY STATUS CODE

| | | |
|------------------------|------|------------------------|
| NONPROGRAM STATUS CODE | 103 | EARLY CHLDH-GAUMAUER |
| | 104 | EARLY CHLDH-COLUMBUS |
| | 105 | EARLY CHLDH-CLUK |
| | 106 | EARLY CHLDH-FRANKLIN |
| | 107 | EARLY CHLDH-GANT |
| | 108 | EARLY CHLDH-GREGORY |
| | 109 | EARLY CHLDH-HARRISON |
| | 110 | EARLY CHLDH-JEFFERSON |
| | 111 | EARLY CHLDH-MONUMENT |
| | 112 | EARLY CHLDH-MOTT |
| | 113 | EARLY CHLDH-PARKER |
| | 114 | EARLY CHLDH-RUBBINS |
| | 115 | EARLY CHLDH-STOKES |
| | 116 | EARLY CHLDH-WASHINGTON |
| | 117 | EARLY CHLDH-WILSON |
| | 118 | EARLY CHLDH-JUNIOR #2 |
| | 120 | EARLY CHLDH-JUNIOR #3 |
| | 121 | EARLY CHLDH-JUNIOR #5 |
| | 9902 | EARLY CHLDH-REASTART |

PROJECT STATUS CODE
NONE

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Exhibit B (continued)

PROJECT TITLE: EDUCATIONAL REPAIRS & EQUIPMENT
STAFF POSITIONS AND COSTS BY STAFF TYPE
CENTRAL ADMIN. AND PROG. MGRS.

| | CURRENT EXPNSF | CV | VI | V2 | V3 | V4 | V5 |
|---------------------|----------------|--------|--------|--------|--------|--------|--------|
| NUMBER OF POSITIONS | 3,25 | 3,25 | 3,25 | 3,25 | 3,25 | 3,25 | 3,25 |
| SALARY COST | 62500 | 480273 | 563704 | 604506 | 671155 | 766167 | 813556 |
| FRINGE BENEFIT COST | 12714 | 13611 | 104747 | 12002 | 134231 | 15587 | 156666 |
| STAFF COST | 76310 | 81653 | 87373 | 9306 | 107097 | 17876 | 187092 |

TEACHERS & CLERICAL STAFF

| | NUMBER OF POSITIONS | 52.05 | 54.11 | 56.16 | 58.21 | 60.27 |
|---------------------|---------------------|--------|--------|--------|--------|--------|
| SALARY COST | 480273 | 563704 | 604506 | 671155 | 766167 | 813556 |
| FRINGE BENEFIT COST | 97656 | 104747 | 12002 | 134231 | 15587 | 156666 |
| STAFF COST | 295929 | 632664 | 725406 | 805385 | 892008 | 98942 |

FOOD SERVICES-NON ADMIN

| | NUMBER OF POSITIONS | 45.00 | 46.79 | 49.50 | 52.38 | 52.17 |
|---------------------|---------------------|--------|--------|--------|-------|--------|
| SALARY COST | 16728 | 11999 | 131950 | 146124 | 16170 | 178867 |
| FRINGE BENEFIT COST | 21399 | 23761 | 26310 | 29228 | 30350 | 35748 |
| STAFF COST | 120316 | 147581 | 158219 | 175352 | 19460 | 214615 |

INSTRUCTIONAL AIDS AND SUPP STAFF

| | NUMBER OF POSITIONS | 50.00 | 61.26 | 63.53 | 65.70 | 69.05 |
|---------------------|---------------------|--------|--------|--------|--------|--------|
| SALARY COST | 216045 | 240090 | 266416 | 20552 | 32622 | 361363 |
| FRINGE BENEFIT COST | 42014 | 46013 | 53281 | 50565 | 65366 | 72273 |
| STAFF COST | 250779 | 298117 | 310909 | 354312 | 392188 | 437636 |

CLERICAL-OFFICE PERSONNEL

| | NUMBER OF POSITIONS | 2.00 | 2.10 | 2.20 | 2.30 | 2.40 |
|---------------------|---------------------|------|-------|-------|-------|-------|
| SALARY COST | 6774 | 7611 | 8631 | 9563 | 11655 | 12575 |
| FRINGE BENEFIT COST | 1155 | 1575 | 1706 | 1800 | 2031 | 2275 |
| STAFF COST | 8129 | 9133 | 11237 | 11557 | 12746 | 14275 |

STAFF TOTALS FOR THE PROJECT

| | NUMBER OF POSITIONS | 150.25 | 165.46 | 171.67 | 177.88 | 186.09 |
|---------------------|---------------------|---------|---------|---------|---------|---------|
| SALARY COST | 881636 | 978266 | 1084114 | 1109983 | 1126750 | 1165307 |
| FRINGE BENEFIT COST | 196397 | 105652 | 216920 | 240090 | 266416 | 293077 |
| STAFF COST | 1057043 | 1173014 | 1301934 | 1430087 | 1492096 | 155874 |
| TOTAL NSNCO COST | 105094 | 110122 | 121610 | 140811 | 171153 | 219636 |

| | TOTAL CURRENT EXPENSE | 1163067 | 1284267 | 1422573 | 1580798 | 1767247 |
|-----------------------------------|-----------------------|---------|---------|---------|---------|---------|
| CAPITAL-CUTLAW COST | 0 | 0 | 0 | 0 | 0 | 0 |
| CROSS PROJECT COST(C+E+C) | 1163067 | 1284267 | 1422573 | 1580798 | 1767247 | 1976016 |
| TOTAL NON-CURRENT EXPENSE REVENUE | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL LOCAL PROJECT COST | 1163067 | 1284267 | 1422573 | 1580798 | 1767247 | 1976016 |

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Exhibit C

SUS STANDARD DATA

PLANNING UNITS IN THE PROJECT BY STATUS CODE

| STANDARD CODE | PROJECT STATUS CODE |
|--------------------------------|--------------------------|
| Q01 | EDUC DISADV-CAPWALNED-FT |
| P04 | EDUC DISADV-COLUMBUS-TI |
| Q05 | EDUC-DISADV-COOK-FT |
| R07 | EDUC DISADV-DRNJ READING |
| R10 | EDUC DISADV-DOCL READING |
| R21 | EDUC DISADV-JP#45-FT |
| R11 | EDUC DISADV-WHNTMFT-FT |
| R12 | EDUC DISADV-MATT-TI |
| R13 | EDUC DISADV-PAKER-FT |
| A15 | EDUC DISADV-STOKE-S-TI |
| R17 | EDUC DISADV-WILSON-FT |
| PROJECT STATUS CODE | |
| NONE | |
| PROJECT DESIGN STATUS CODE | |
| NONE | |

SITE TITLE: COLUMBUS SCHOOL

SITE CODE: 4

| CURRENT EXPENSE | | CY | Y1 | Y2 | Y3 | Y4 | Y5 |
|--|--------|--------|--------|--------|--------|--------|--------|
| <u>STAFF POSITIONS AND COSTS BY STAFF TYPE</u> | | | | | | | |
| <u>PRINCIPALS/VICE PRINCIPALS</u> | | | | | | | |
| NUMBER OF POSITIONS | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 |
| SALARY COST | 15048 | 16101 | 17229 | 18434 | 19724 | 2105 | 2105 |
| FRINGE BENEFIT COST | 3609 | 3220 | 3445 | 3686 | 3944 | 4221 | 4221 |
| STAFF CCST | 18C57 | 19321 | 20674 | 22120 | 23668 | 25326 | 25326 |
| <u>TEACHER-A-EC, PRIMARY, ETC</u> | | | | | | | |
| NUMBER OF POSITIONS | 12.00 | 12.37 | 12.68 | 13.29 | 13.76 | 14.36 | 14.36 |
| SALARY COST | 123600 | 136293 | 151089 | 167656 | 18782 | 207458 | 207458 |
| FRINGE BENEFIT COST | 24720 | 27258 | 30378 | 33631 | 37156 | 41492 | 41492 |
| STAFF CCST | 146320 | 163551 | 182267 | 201187 | 222938 | 246950 | 246950 |
| <u>TEACHER C-SPECIAL EDUCATION</u> | | | | | | | |
| NUMBER OF POSITIONS | 11.00 | 10.78 | 10.78 | 10.57 | 10.46 | 10.35 | 10.35 |
| SALARY COST | 116550 | 122683 | 131270 | 137650 | 145763 | 154319 | 154319 |
| FRINGE BENEFIT COST | 23390 | 24537 | 26254 | 27530 | 29157 | 30816 | 30816 |
| STAFF CCST | 140340 | 147220 | 157524 | 165183 | 174940 | 185255 | 185255 |
| <u>INSTRUCTIONAL SPECIALIST</u> | | | | | | | |
| NUMBER OF POSITIONS | 1.23 | 1.24 | 1.27 | 1.29 | 1.31 | 1.35 | 1.35 |
| SALARY COST | 10615 | 11742 | 12929 | 14057 | 15386 | 16935 | 16935 |
| FRINGE BENEFIT COST | 2162 | 2345 | 2565 | 2811 | 3077 | 3338 | 3338 |
| STAFF CCST | 12977 | 14090 | 15514 | 16868 | 18463 | 20323 | 20323 |
| <u>HEALTH PERSONNEL</u> | | | | | | | |
| NUMBER OF POSITIONS | 0.59 | 1.01 | 1.04 | 1.06 | 1.09 | 1.12 | 1.12 |
| SALARY COST | 10781 | 11749 | 12968 | 14140 | 15517 | 17128 | 17128 |
| FRINGE BENEFIT COST | 2158 | 2350 | 2593 | 2827 | 3103 | 3426 | 3426 |
| STAFF CCST | 12949 | 14095 | 15561 | 16957 | 18620 | 20554 | 20554 |
| <u>OPER-MAINT-FACILITIES-NCN 740</u> | | | | | | | |
| NUMBER OF POSITIONS | 6.93 | 6.93 | 6.93 | 6.93 | 6.93 | 6.93 | 6.93 |
| SALARY COST | 27176 | 29076 | 31115 | 33292 | 35623 | 38116 | 38116 |
| FRINGE BENEFIT COST | 5436 | 5516 | 6222 | 6659 | 7125 | 7623 | 7623 |
| STAFF CCST | 32612 | 34894 | 37337 | 39951 | 42748 | 45739 | 45739 |
| <u>INSTRUC AIDES AND SUPP STAFF</u> | | | | | | | |
| NUMBER OF POSITIONS | 0.75 | 0.77 | 0.80 | 0.83 | 0.86 | 0.89 | 0.89 |
| SALARY COST | 2700 | 2974 | 3313 | 3654 | 4048 | 4516 | 4516 |
| FRINGE BENEFIT COST | 540 | 595 | 662 | 730 | 810 | 903 | 903 |
| STAFF CCST | 3240 | 3565 | 3975 | 4384 | 4858 | 5419 | 5419 |
| <u>CLERICAL-OFFICE PERSONNEL</u> | | | | | | | |
| NUMBER OF POSITIONS | 0.59 | 0.55 | 0.59 | 0.99 | 0.99 | 0.99 | 0.99 |
| SALARY COST | 7029 | 7221 | 8048 | 8610 | 9214 | 9859 | 9859 |
| FRINGE BENEFIT COST | 1466 | 1505 | 1609 | 1721 | 1843 | 1971 | 1971 |
| STAFF CCST | 8435 | 9026 | 9657 | 10331 | 11057 | 11830 | 11830 |

STAFF TOTALS FOR THE SITE

| | | | | | |
|-----------------------------------|--------|--------|--------|--------|--------|
| NUMBER OF POSITIONS | 34.00 | 35.00 | 35.94 | 36.39 | 36.78 |
| SALARY COST | 314109 | 338141 | 368761 | 397493 | 431077 |
| FRINGE BENEFIT COST | 62821 | 67629 | 79495 | 86215 | 9496 |
| STAFF LCST | 376630 | 405770 | 442505 | 476306 | 517292 |
| TOTAL NSNCO COST | | | | | 563356 |
| TOTAL CURRENT EXPENSE | 23066 | 24217 | 26698 | 30906 | 37567 |
| TOTAL CURRENT EXPENSE | 359956 | 429987 | 469267 | 507394 | 554859 |
| CAPITAL OUTLAY CCST | 676 | 744 | 900 | 1198 | 1754 |
| GROSS SITE COST (EC+CC) | 400672 | 430731 | 470107 | 509092 | 556613 |
| TOTAL NON-CURRENT EXPENSE REVENUE | 0 | 0 | 0 | 0 | 0 |
| TOTAL LOCAL SITE COST | 400672 | 430731 | 470107 | 509092 | 556613 |

PLANNING UNITS AT THE SITE BY STATUS CCCE

| SUBPROGRAM STATUS CODE | 104 EARLY CHILD-C-COLUMBUS |
|------------------------|----------------------------|
| 204 | PRIMAKY-C-COLUMBUS |
| 304 | ELEMENTARY-C-COLUMBUS |
| 604 | SPECIAL EC-COLUMBUS |

PROJECT STAFFS CCDE

NONE

PROJECT DESIGN STATUS CCDE

TRENTON SCHOOL DISTRICT

NET SOURCE REVENUE/EXPENSE SUMMARY REPORT

PAGE 22

| CURRENT EXPENSE STAFF COSTS | CY | Y1 | Y2 | Y3 | Y4 | Y5 |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| SALARY COST | 14877751 | 16261850 | 17653635 | 19517230 | 21561163 | 237C5644 |
| FRINGE BENEFITS COST | 2975553 | 3622969 | 3570656 | 3923404 | 4312839 | 4741117 |
| STAFF COSTS | 17653504 | 19514219 | 21423671 | 23540434 | 25870482 | 28446761 |
| TOTAL NSCO COSTS | 4128914 | 4328762 | 4773689 | 5525898 | 6715734 | 8572399 |
| TOTAL CURRENT EXPENSE | 21482218 | 25843921 | 26197160 | 29066332 | 32593716 | 37019166 |
| CAPITAL-UTILY COST | 224707 | 247175 | 290831 | 398076 | 582818 | 930631 |
| TOTAL GROSS COST(GC+CU) | 22206925 | 24691096 | 26490241 | 29464408 | 33176534 | 37957771 |
| TOTAL NON-CURRENT EXPENSE REVENUES | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL NET(LOCAL) COST(GROSS-NC REV) | 22206925 | 24691096 | 26490241 | 29464408 | 33176534 | 37957771 |

SUBSIDIARY DATA

INFLATION RATE FOR NSCO CGST TYPE 1 TO 4 0.050 0.050 0.0 0.0
 INFLATION RATE FOR CAPITAL OUTLAY COST 0.100

| | EXPENDED TURNOVER RATE | SALARY COST INFLAT. IN. PERCENT | FRINGE BENEFITS PERCENT |
|-------------------------------|------------------------------|---------------------------------------|-------------------------------|
| CENTRAL ADMIN AND PROG MGRS | 0.150 | 0.070 | 0.250 |
| PRINCIPALS/VICE PRINCIPALS | 0.150 | 0.070 | 0.200 |
| ADM IN STAFF/PKUF/TECHNICAL | 0.150 | 0.070 | 0.200 |
| TEACHER, AD-LPM/HM/MTLLEN | 0.150 | 0.070 | 0.200 |
| TECH OR INSTRUCTED & SEC. CNT | 0.150 | 0.070 | 0.200 |
| TEACHER, C-VAC, TECHNICAL | 0.150 | 0.070 | 0.200 |
| TEACHER, C-SPECIAL EDUCATION | 0.150 | 0.070 | 0.200 |
| INSTRUCTIONAL SPECIALIST | 0.150 | 0.070 | 0.200 |
| HEALTH PERSONNEL | 0.150 | 0.070 | 0.200 |
| TRANSPORTATION-NON ADMIN | 0.150 | 0.070 | 0.200 |
| FUND SERVICES-NON ADMIN | 0.150 | 0.070 | 0.200 |
| GEN-MAIN-FACILITIES-NON AD | 0.150 | 0.070 | 0.200 |
| INSTUC AIDES AND SUPP STAFF | 0.150 | 0.070 | 0.200 |
| CLERICAL-OFFICE PERSONNEL | 0.150 | 0.070 | 0.200 |
| MISCELLANEOUS | 0.150 | 0.070 | 0.200 |

Advantages and Limitations

The principal advantage of the planning unit approach is that it provides useful data for planners, without the need for a permanent program-structure and a pretentious system analysis of the agency. Because of its flexibility, and independence from conventional hierarchical organization schemes, it allows for creativity in the assignment of middle management staff, enabling the agency to match its program configuration to its current management talent.

Further, the concept of a plan as a unique set of planning units, and of alternative plans as alternative sets, has the effect of de-mystifying the process of comprehensive planning. A planning unit is a cluster of activities designed to have an incremental impact on the service criteria of the organization; thus, it is easier to project the expected marginal utility of alternative plans and to evaluate their subsequent performance.

The main disadvantages of the approach are two:

- first, it is not altogether consistent with the goals of fiscal management and control, in which consistency and uniformity are more desirable than creativity or analysis, and
- second, it places a substantial burden on the user, in that the definition of planning units is not a straightforward, "lawful" process, and may have to be re-done a few times until an adequate scheme is found.

It must be said of these limitations, however, that they are offset by the benefits of the approach. The latter objection should be regarded as an indication that creative, imaginative planning requires innovative approaches to data and its aggregation, and that straightforward, "idiot proof" models for analysis are inappropriate for planning.

The former objection--inconsistency with fiscal control requirements--is more problematical. The effect of the planning unit approach is to further differentiate, and separate, the planning and control functions of the agency, and, on this basis, the approach would seem inconsistent with the ideals of planning-programming-budgeting. In fact, it is the observation of these authors that current attempts to fully integrate top level planning and management with ongoing operational control have resulted largely in the "capture" of the planning process by business and accounting executives. To the degree that planning options are constrained by the operational complexities of payroll generation, monthly fiscal reports, and routine bookkeeping--to that degree strategic and long range planning suffer. We are prepared to assert, at this stage of our work, that a separation of planning from control is, in the main, a necessary prerequisite to adequate planning itself.

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